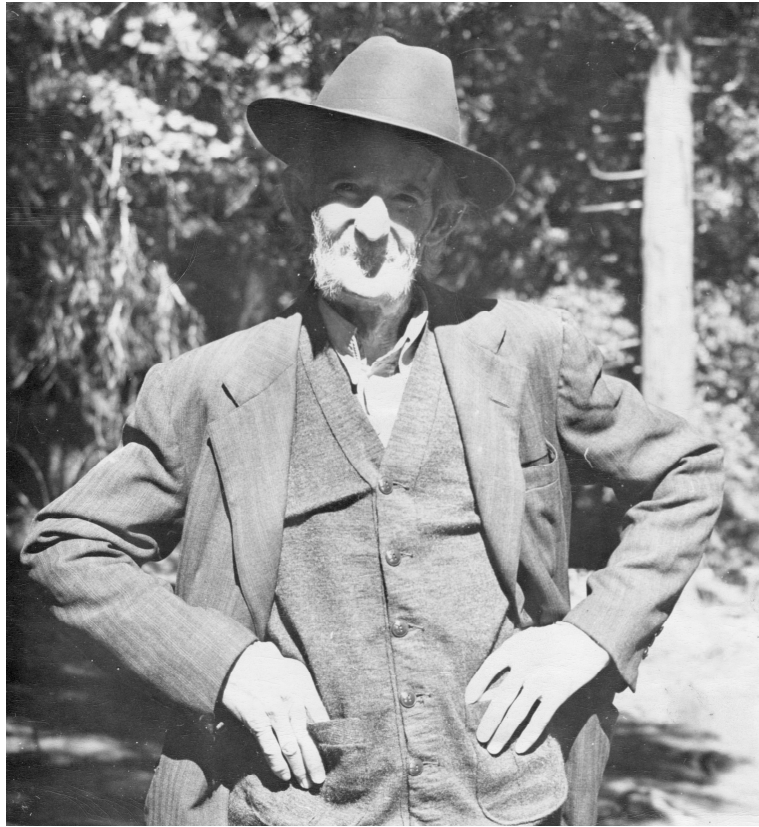


1906 Diary

Robert Haley Asher



Robert Haley Asher, September 9, 1945

Robert Haley Asher was born 28 March 1868, to Josephus Marion Asher, who was the first commercial nurseryman in the San Diego area, providing buyers with fruit trees, shrubs, & vines from his Fruit Vale ranch in Paradise Valley, National City. Robert Asher settled on Palomar Mountain in 1903, and ultimately had 160 acres, living in the Pauma Creek / State Park area. Robert Asher also lived off Palomar Mountain part of the year working as a nurseryman among other things. On Palomar, Asher photographed summer campers, then developed and sold them photos; he also sold postcards off his photos, trapped animals for pelts, collected and sold wild plants, picked apples, and worked odd jobs. Asher moved off Palomar Mountain in 1946 to his sister Mrs. Josephine A. Vacher's place on Fuerte Drive in El Cajon and continued to visit Palomar Mountain until 1951. Asher passed away on 25 April 1953.

These digitized pages are from the Robert Haley Asher papers (held by Peter Brueggeman). When Josephine Vacher's son vacated the family house in El Cajon, the family gave Robert Asher materials at that location to Peter, due to his Palomar Mountain history interests. Digitization of these materials and posting them to the Internet Archive is intended to enhance and preserve access to these materials.

Diary entries from February 9 to August 11, 1906.

A36. Diary. Asher. Palomar.

1906.

Feb. 9. Friday. Started for Palomar from El Cajon home at 8 A.M. Walked by way of Sycamore Canyon to Escondido -- carrying blankets etc. Reached Avenue Hotel at 8 P.M. Room and breakfast 75 cents. Threatening rain all day. At one time it was raining both in front and behind.

Feb. 10. Saturday. Cleaver and Burns down from the mountain. Had early dinner and started for Palomar about 12.15 P.M. Burns driving -- Mr. Cleaver's back hurting him. Got to Matthew's old shack on the Pauma Grant about 7 P.M. -- showery all the way. I walked up the Valley Center Grade and from Allen's to to the Pauma. Rain was coming down in good earnest when we got to the shack. Old Pollywopsie was there.

Feb. 11. Sunday. Showers and mist all day. I drove for about a mile then got out and walked the rest of the way, arriving at Douglasses about 2.15 P.M. Mr. and Mrs Douglas and the two children were at home, having come up the day before. Smith did not show up. Cleaver and Burns arrived about 3.30 P.M. I had dinner with the Douglasses and started for the canyon about 4 o'clock. All O.K. at the Shack despite Burn's complaints -- good and dry and comfortable.

Feb. 12. Monday. Went down to ditch. Was much disappointed in Mr. Burns' work -- if he did any work. Some rain.

Feb. 13 & 14. Tuesday, Wednesday. Did some work on ditch and was up to get my mail.

Feb. 15. Thursday. Worked on Dugout cabin.

Feb. 16. Friday. Clear. Worked on new trail to Dam Site etc

A37. Diary. Asher. Palomar.

Feb. 17. Saturday. Clear. Worked on trail some in morning and again in afternoon. Went up to postoffice mail time. Sent letter to Luce, Sloane & Luce regarding Burns, the ditch, etc. Burns came down after dinner and braced me for \$25.00. I told him nay and that I did not intend to pay him another cent -- and that , anyhow, the matter was now in Judge Sloane's hands. Burns talked quite a bit longer --- calling Mr. Bailey a liar amongst other things.

Feb. 18. Sunday. Clear. Took a walk up Morgan Hill way.

Feb. 19. Monday. Clear. Went up to store etc. The Douglasses were down to visit me yesterday. Mr. Bailet took serious exception to Burns remarks concerning his, Bailey's, veracity etc. I gave Mr. Cleaver 75 cents to get me some 8d nails and bread. Got stove at Cleaver's. worked on trail P.M. Had about 5.50 inches of rain last week. 6.98 inches so far for Feb.

Feb. 20. Tuesday. Clear. Worked on house at Dugout camp. Started to clear land for nursery after supper.

Feb. 21. Wednesday. Stormy all day. Creek high again. Putte Puttered around Shack.

Feb. 22nd, 23rd, 24th. Thursday to Saturday. Fog and bad weather. Worked on house at Dugout, on ditch, and on trail. To postoffice Thursday and Saturday. Received letter from Luce, Sloane & Luce. Paid Burns in full of demands --\$25.00 (\$40.00 in all.)

Feb. 25th Sunday. Clear. Stayed at home a.m. afternoon took a stroll up Cedar Dam Ridge.

Feb. 26th Monday. Clear. Worked on house at Dayton till middle of afternoon, when I went up to Douglas and sharpened the ax. Sent postal to John E. Barber, Bureau L.H. Boone & wife back from Mexico but did not see them.

United States Department of Agriculture.

BUREAU OF FORESTRY Circular No. 31.

GIFFORD PINCHOT, Forester.

EXHIBIT OF A FOREST NURSERY AT THE LOUISIANA PURCHASE EXPOSITION.

A demonstration forest nursery forms part of the outdoor exhibit of the Bureau of Forestry at the Louisiana Purchase Exposition. It contains about 8,100 square feet, 4,500 of which is devoted to coniferous and the remainder to broadleaf trees.

The land selected for the nursery is the higher part of the outdoor space assigned to the Bureau. Its natural advantages are that there is enough slope to allow good drainage, without much danger of wash. It has the disadvantage that the soil—the heavy clay so common about St. Louis—is not well adapted for a nursery. The whole area was plowed late last fall, and harrowed as early in the spring as the unfavorable weather permitted.

CONIFEROUS NURSERY.

The purpose of the coniferous seed beds is to show various methods of seeding, and different kinds of screens for securing suitable shade for the different species. Four methods of seeding have been used, namely, broadcasting over the whole bed, broadcasting in strips 6 or 8 inches wide, sowing in single drills, and sowing in double drills. Before planting, the beds were thoroughly spaded and the earth fined.

The chief advantage of the broadcast method is that a larger number of seedlings can be raised by it on a given area than by any other method. Broadcasting in strips is a compromise between the drill and broadcasting methods, and combines the merits of both. The seeds sown broadcast were pressed into the soil to the depth of their own thickness, while the drills were made one-eighth to one-fourth of an inch deep, and in case of the larger seeds somewhat deeper. Where the method of broadcasting in strips is used a space 6 inches wide is left between the seeded strips, to allow cultivation by a narrow hoe. The same object is obtained by sowing in drills. The single drills and the couplets of the double drills are 6 inches apart, while

Mar. 2nd & 3rd, Worked on dam-
site and ditch.

Mar. 4th Sunday, Cloudy, Read a.M.

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U. S. DEPARTMENT OF AGRICULTURE.

Took a walk up to Oliver's P.M.

Mar. 5th Monday, Clear, Went up to

Adams Place, Worked on ditch
P.M.

FARMERS' BULLETIN No. 92.

Mar. 6th Tuesday, Clear, Worked on
ditch, Went up to P.O. P.M.

Experiment Station Work,

IX.

SUGAR BEETS ON ALKALI SOILS.
PLANTING AND REPLANTING CORN.
IMPROVEMENT OF SORGHUM.
IMPROVED CULTURE OF POTATOES.
SECOND-CROP POTATOES FOR SEED.
COLD v. WARM WATER FOR PLANTS.
FORCING HEAD LETTUCE.

THE DATE PALM IN THE UNITED STATES.
THE CODLING MOTH.
JERUSALEM ARTICHOKE FOR PIGS.
FEEDING CALVES.
PASTEURIZATION IN BUTTER MAKING.
GASSY AND TAINTED CURDS.
PURE CULTURES IN CHEESE MAKING.

Mar. 10th Saturday, Cloudy, Worked
some around shack, Went up to
Post Office, sent Ladies Home Jour-
nal, self, more tinted
photos.

PREPARED IN THE OFFICE OF EXPERIMENT STATIONS.



Mar. 11th Sunday, Threat
some hail, go up to Morgan
hill to take some with the Ferguson
sons - but it looked too much like
rain. Mrs. Ferguson's brother and
a Mr. Matthies are with them.

WASHINGTON:

GOVERNMENT PRINTING OFFICE.

1899.

Mar. 12th Monday, Rain all day
and wind - all over - didn't

it blew through! must have
had five or six inches last
night. At one time during the
day I heard a roar in the
directions of the kitchen. Rushing
to the window I saw a flood
coming down at the north end of
the house. Then I went into
the kitchen and there was the

CONTENTS OF THE SERIES OF FARMERS' BULLETINS ON EXPERIMENT
STATION WORK.

- flood covered with water*
- I. (Farmers' Bul. 56).—Good v. Poor Cows; Corn v. Wheat; Much v. Little Protein; Forage Crops for Pigs; Robertson Silage Mixture; Alfalfa; Proportion of Grain to Straw; Phosphates as Fertilizers; Harmful Effects of Muriate of Potash; Studies in Irrigation; Potato Scab; Barn-yard Manure.
 - II. (Farmers' Bul. 65).—Common Crops for Forage; Stock Melons; Starch in Potatoes; Crimson Clover; Geese for Profit; Cross Pollination; A Germ Fertilizer; Lime as a Fertilizer; Are Ashes Economical? Mixing Fertilizers.
 - III. (Farmers' Bul. 69).—Flax Culture; Crimson Clover; Forcing Lettuce; Heating Greenhouses; Corn Smut; Millet Disease of Horses; Tuberculosis; Pasteurized Cream; Kitchen and Table Wastes; Use of Fertilizers.
 - IV. (Farmers' Bul. 73).—Pure Water; Loss of Soil Fertility; Availability of Fertilizers; Seed Selection; Jerusalem Artichokes; Kafir Corn; Thinning Fruit; Use of Low-grade Apples; Cooking Vegetables; Condimental Feeding Stuffs; Steer and Heifer Beef; Swells in Canned Vegetables.
 - V. (Farmers' Bul. 78).—Humus in Soils; Swamp, Marsh, or Muck Soils; Rape; Velvet Bean; Sun-flowers; Winter Protection of Peach Trees; Subwatering in Greenhouses; Bacterial Diseases of Plants; Grape Juice and Sweet Cider.
 - VI. (Farmers' Bul. 79).—Fraud in Fertilizers; Sugar-beet Industry; Seeding Grass Land; Grafting Apple Trees; Forest Fires; American Clover Seed; Mushrooms as Food; Pigs in Stubble Fields; Ensiling Potatoes; Anthrax.
 - VII. (Farmers' Bul. 84).—Home-mixed Fertilizers; Forcing Asparagus in the Field; Field Selection of Seed; Potatoes as Food for Man; Corn Stover as a Feeding Stuff; Feeding Value of Sugar Beets; Salt-marsh Hay; Forage Crops for Pigs; Ground Grain for Chicks; Skim Milk for Young Chickens; By-products of the Dairy; Stripper Butter; Curd Test in Cheese Making; Gape Disease of Chickens.
 - VIII. (Farmers' Bul. 87).—Soil Moisture; Fertility of Soils; Cover Crops for Orchards; Cultivating v. Cropping Orchards; Transplanting Trees; Fecundity of Swine; Food Value of Eggs; Starch from Sweet Potatoes; The Toad as a Friend of the Farmer.

*and the fire in the fire-place
crowned out. It was all
past in 15 minutes - but it
was pretty fierce while it
lasted; the fire pit well
I had lined and curbed with
stones was filled up - part
washed away; there must*

have been something near
like a "cloud-burst" up to
the north and north-east. I've
had a rather miserable time
of it all day. The wind was
blowing down from the north so
furiously that the fire-place
~~smoke~~ would blow down the
chimney in spite of me. Worked
a little in the bedroom - papering
the walls. ~~Went~~ ^{Working} all day.

LETTER OF TRANSMITTAL.

U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF EXPERIMENT STATIONS,
Washington, D. C., March 15, 1899.

SIR: The ninth number of Experiment Station Work, prepared
under my direction, is transmitted herewith with the recommendation
that it be published as a Farmers' Bulletin.

Respectfully,

A. C. TRUE,
Director.

Hon. JAMES WILSON,
Secretary of Agriculture.

Use. Lots of trees have been blown
down. ^{white} a number of young
and apparently thrifty firs ³ are
among the number. The fire of
six years ago had probably weaken-
ed the trunks, one side burnt.
Working in shack in kitchen floor
in an effort to get things dry again.

Mar 14th Wednesday. ~~Cloudy~~ & foggy.
Went over to Fink's. Stopped in ~~at~~
Cleaver's for a few minutes. Nelson
was there. The floor was wet from
rain blowing in the windows. The wind
blew me of the ~~back~~ out. No mail yesterday.

Mar. 15th Thursday to Mar 18th
 Sunday at Fink's. Stormy all the
 nearly, Snow Saturday night. ^{Came} ~~What~~
 back to canyon Sunday, Stopped a
 moment at Cleaver's. He has a
 bad cold. Nelson had gone out
 hunting ^{also went down to Dugout and}
^{got} ~~part~~ ^{part} ~~rock~~ ^{rock} asphaltum paper.

Mar 19th Monday. Clear. Worked on
 trail around the dam - site to
 ditch-line. Creek too high to cross.

Mar. 20th Tuesday. Fair - cloudy P. M. Worked

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Mar 21st Wednesday. Cloudy. Worked
 on trail and ditch
 Mar 22nd Thursday. Threatening
 worked on trail and ditch.
 Mar 23rd Friday. Threatening. Worked

Mar 24th Saturday. Clear. Worked on trail and ditch.
 Mar 25th Sunday. Clear. Worked on trail and ditch.
 Mar 26th Monday. Clear. Worked on trail and ditch.
 Mar 27th Tuesday. Clear. Worked on trail and ditch.
 Mar 28th Wednesday. Clear. Worked on trail and ditch.
 Mar 29th Thursday. Clear. Worked on trail and ditch.
 Mar 30th Friday. Clear. Worked on trail and ditch.
 Mar 31st Saturday. Clear. Worked on trail and ditch.

on ditch until 3 P.M., after which
light showers.

Mar 24th Saturday. Rain! Rain!! Rain!!!
My birthday, and Dorcas. The rain
commenced in earnest some time in
the night. A 6 in. can was brim full
this morning. At noon there was 4
inches more. At 4 P.M. 1 in. more. The
storm let up a little after that. Worked
on the kitchen floor.

EXPERIMENT STATION WORK—IX.

SUGAR BEETS ON ALKALI SOILS.

It is generally concluded from European experience that alkali lands must be classed among the soils least adapted to the successful culture of the sugar beet. Although the sugar-beet industry is just beginning to be established in this country and we have millions of acres of land whose adaptability to the growth of the sugar-beet is unquestioned, it is nevertheless important to ascertain the possibilities of successful sugar-beet culture on alkali soils, inasmuch as the proximity of such soils to beet-sugar factories may make them especially desirable as beet fields. The existence of these conditions in southern California, near the large sugar-beet factory at Chino, and the fact that the beet fields were there rapidly extended with but little regard to the presence of alkali, without seriously injuring the quality of the beet, induced the California Experiment Station to make a study of the effect of different kinds and amounts of alkali in the soil on the growth and quality of sugar beets.

The investigation was made on a 10-acre field located on the border of a tract of alkali land. The tract contained occasional small alkali spots, which, however, did not seem to interfere with its natural growth of wild grasses and sunflowers. This soil was first planted to various grasses and legumes, but as none of these gave promise of a crop the greater part of the tract was again plowed and planted to sugar beets. "These came up quickly, though with a somewhat thin stand, right among the alkali efflorescences, and continued to grow without let or hindrance." The alkali salts did not seem to affect the beets, although they had proved injurious to the grasses and legumes. Different portions of the tract had different amounts and qualities of alkali salts, and to deduce definite conclusions regarding the tolerance of the plants for the several mixtures of salts the tract was divided into plats 50 feet square, which were investigated separately.

¹ This is the ninth number of a subseries of brief popular bulletins compiled from the published reports of the agricultural experiment stations and kindred institutions in this and other countries. The chief object of these publications is to disseminate throughout the country information regarding experiments at the different experiment stations, and thus to acquaint our farmers in a general way with the progress of agricultural investigation on its practical side. The results herein reported should for the most part be regarded as tentative and suggestive rather than conclusive. Further experiments may modify them, and experience alone can show how far they will be useful in actual practice. The work of the stations must not be depended upon to produce "rules for farming." How to apply the results of experiments to his own conditions will ever remain the problem of the individual farmer.—A. C. TRUE, Director, Office of Experiment Stations.

Mar. 25th Sunday. Rain. 4 inches
more last night. Cloudy & foggy
all day but not much rain.

Mar 26th, Monday, Rain again, 3 inches
last night. Rain and fog all day.
Worked in shack. Heaps too much
stay indoors! No likes! But little
rain in afternoon. Much more since

The author concludes from the results obtained that without question
sugar beets of a good quality can be grown on soil containing as much
as 12,000 pounds of alkali salts per acre to the depth of 3 feet, provided
the average percentage of common salt is not over 0.04 per cent, or
1,500 pounds per acre.

To find out whether the sugar beet can be profitably grown on alkali
lands, it is recommended to those interested in such lands to ascertain
the total amount of salts in the upper 3 or 4 feet of soil. This may be
accomplished by taking an average sample of the soil to that depth by
means of a post-hole auger and having the amount of soluble salts con-
tained in it determined. A considerable portion of the salts present in
the first 3 or 4 feet of the soil may come to the surface under cultiva-
tion and irrigation and may give the soil the appearance of being too
heavily impregnated with alkali to grow beets; but, as these experi-
ments indicate, the feasibility of successfully growing sugar beets
depends on the total amount of alkali salts present in this upper
stratum, and soils with marked alkali efflorescences at the surface may
be perfectly capable of profitable sugar-beet culture.

measuring in morning Fogginess after noon PLANTING AND REPLANTING CORN.

Owing to abnormal weather conditions, the presence of insect ene-
mies, the failure of the seed, and other influences, it often becomes
necessary to postpone the planting of corn or to replant the crop. The
question which presents itself under such conditions is how the date of
planting affects the yield and maturity. Many of the experiment sta-
tions have carried on experiments for several years to determine the
influence of the time of planting corn on the yield and maturity of the
crop, which have thrown much light on this subject.

In experiments at the Indiana Station it was found that the earliest
planting (May 1) yielded the largest crop (41 bushels per acre), while
the latest planting yielded about one-fourth less (31.7 bushels per acre).

Mar 27th, Tuesday, Fair. Worked a little on ditch trail. Went up to store to get grub. "When she got there the cup-board was bare" Harvey

in it. Two or three years ago the Wisconsin Experiment Station made some experiments with a pure culture of the bacteria causing the souring of milk, which is believed to be a potent factor in the ripening of cheese. In the opinion of a disinterested party who scored the cheeses, the use of the pure culture improved not only the flavor of the cheese, but its texture as well. In addition to this, the cheeses made with the pure culture were more uniform in quality than cheeses made at the same time without any starter, there being less variation in flavor and texture of different cheeses made on the same day.

Recently, experiments in Scotland have been reported in which pure cultures were used on a commercial scale. The cultures, like those used at the Wisconsin Station, consisted of a form of lactic-acid bacteria, which subsequent investigation showed to be very prevalent in sour milk, whey, and cheese of fine quality, and very similar to the pure cultures used for butter making. The pure cultures were tested quite extensively at one factory during the summer, and were also tried by thirty-two different cheese makers. More than 100 tons of cheese was made with their use. The qualities of the cheese were good, and there was an absence of "the undesirable fodder taste common to spring cheese." A number of the cheese makers who tested the cultures continued to use them all summer and requested that they be supplied with them the following season. In several cases cheese made with the pure cultures took prizes at exhibitions. One noticeable result from their use was greater uniformity in the product.

Trials of pure cultures in two dairies for the purpose of preventing discoloration of the cheese resulted favorably, "and in a third dairy discoloration ceased as soon as the culture was used."

The author considers that the experiments have shown the use of pure cultures in cheese making to be both successful and practical, and believes that there is every probability that the system may be used with great advantage where there is danger of discoloration, difficulty in getting a firm curd, where a starter of some kind is necessary owing to the conditions for keeping milk being imperfect, where there is trouble from tainted milk or tainted curd, for the production of cheese in spring and autumn, and for securing greater uniformity in quality.

Peters got the last of the flour for the Hensons before I arrived on the scene. No flour, no corn meal, no spuds - and it began to look like no nothing but Mr. Bailey finally dug up some rice and crackers and a package of H.O. oat meal.

I met Mr Smith and Herbert and Mr. Scott at the Oliver place. Herbert had been there Sunday and found lots of arrow-heads. Mr Smith was there Monday and secured a lot more and I thought I would be the last one there when I went up this morning. Rainfall for the month the weather was 35 inches fell in the month.

EXPLANATION OF TERMS.

TERMS USED IN DISCUSSING FERTILIZERS.

Complete fertilizer is one which contains the three essential fertilizing constituents, i. e., nitrogen, phosphoric acid, and potash.

Nitrogen exists in fertilizers in three distinct forms, viz, as organic matter, as ammonia, and as nitrates. It is the most expensive fertilizing ingredient.

Organic nitrogen is nitrogen in combination with other elements either as vegetable or animal matter. The more valuable sources are dried blood, dried meat, tankage, dried fish, and cotton-seed meal.

Ammonia is a compound of nitrogen more readily available to plants than organic nitrogen. The most common form is sulphate of ammonia, or ammonium sulphate. It is one of the first products that results from the decay of vegetable or animal substances.

Nitrates furnish the most readily available forms of nitrogen. The most common are nitrate of soda and nitrate of potash (saltpeter).

Phosphoric acid, one of the essential fertilizing ingredients, is derived from materials called phosphates. It does not exist alone, but in combination, most commonly as phosphate of lime in the form of bones, rock phosphate, and phosphatic slag. Phosphoric acid occurs in fertilizers in three forms—soluble, reverted, and insoluble phosphoric acid.

Potash, as a constituent of fertilizers, exists in a number of forms, but chiefly as chlorid or muriate and as sulphate. All forms are freely soluble in water and are believed to be nearly, if not quite, equally available, but it has been found that the chlorids may injuriously affect the quality of tobacco, potatoes, and certain other crops. The chief sources of potash are the potash salts from Stassfurt, Germany—kainit, sylvinite, muriate of potash, sulphate of soda, and sulphate of potash and magnesia. Wood ashes and cotton-hull ashes are also sources of potash.

TERMS USED IN DISCUSSING FOODS AND FEEDING STUFFS.

Water is contained in all foods and feeding stuffs. The amount varies from 8 to 15 pounds per 100 pounds of such dry materials as hay, straw, or grain to 80 pounds in silage and 90 pounds in some roots.

Dry matter is the portion remaining after removing or excluding the water.

Ash is what is left when the combustible part of a feeding stuff is burned away. It consists chiefly of lime, magnesia, potash, soda, iron, chlorin, and carbonic, sulphuric, and phosphoric acids, and is used largely in making bones. Part of the ash constituents of the food is stored up in the animal's body; the rest is voided in the urine and manure.

Protein (nitrogenous matter) is the name of a group of substances containing nitrogen. Protein furnishes the materials for the lean flesh, blood, skin, muscles, tendons, nerves, hair, horns, wool, casein of milk, albumen of eggs, etc., and is one of the most important constituents of feeding stuffs.

Gluten is the name given to one of the most important of the nitrogenous substances classed together under the general term "protein." "Wheat gum," obtained

Mar. 28th Wednesday, Worked some on ditch trail and then went up to see the Fergusons

I had intended to visit them next Sunday - but it clouded up again and I concluded to go while I could. They seemed to

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by carefully chewing wheat, is a familiar example. It is the gluten of flour that gives consistency to dough.

Carbohydrates.—The nitrogen-free extract and fiber are often classed together under the name of carbohydrates. The carbohydrates form the largest part of all vegetable foods. They are either stored up as fat or burned in the body to produce heat and energy. The most common and important carbohydrates are sugar and starch.

Fiber, sometimes called crude cellulose, is the framework of plants, and is, as a rule, the most indigestible constituent of feeding stuffs. The coarse fodders, such as hay and straw, contain a much larger proportion of fiber than the grains, oil cakes, etc.

Nitrogen-free extract includes starch, sugar, gums, and the like, and forms an important part of all feeding stuffs, but especially of most grains.

Fat, or the materials dissolved from a feeding stuff by ether, is a substance of mixed character, and may include, besides real fats, wax, the green coloring matter of plants, etc. The fat of food is either stored up in the body as fat or burned to furnish heat and energy.

MISCELLANEOUS TERMS.

Alkali soils.—Soils found in arid or semiarid regions, which contain an unusual amount of soluble mineral salts (alkali), which effloresce or bloom out in the form of a white powder or crust in dry weather following rains or irrigation. Two distinct classes of alkali are known: White alkali, composed largely of sulphate of soda and common salt, which is comparatively harmless; and black alkali, composed largely of carbonate of soda, which is highly corrosive and destructive to vegetation.

Humus is the name applied to the partially decomposed organic (animal and vegetable) matter of the soil. It is the principal source of nitrogen in the soil.

Micro-organism, or **microscopic organism**, is a plant or animal, too small to be seen without the aid of a compound microscope.

Bacterium (plural, **Bacteria**) is the name applied in common to a number of different or closely related microscopic organisms, all of which consist of single short cylindrical or elliptical cells or two such cells joined end to end and capable of spontaneous movement. Many kinds of bacteria are harmful and cause diseases and other injurious effects, but many are beneficial. Among the latter are those which give aroma to tobacco and flavor to butter and cheese, and those which enable leguminous plants to use the free nitrogen of the air.

Bacillus (plural, **Bacilli**) is a genus, or kind, of **Bacterium**.

Culture, as here applied to bacteria or other organisms, is the product of their growth under artificial conditions.

Pure culture is a culture containing one kind of organism. Pure cultures of yeast are used in wine making, and pure cultures of bacteria are used in butter and cheese making, and for other purposes, to insure a uniform product.

Sterilized milk or cream, properly speaking, is that in which all the germs have been destroyed (usually by repeated heating to 212° F.—boiling point), but in dairy practice the term is applied to milk or cream which has been heated once to a temperature of about 212° F.

Pasteurized milk or cream is that which has been heated to a temperature (about 155° F.) which does not kill all the bacteria, but only those which are in a vegetating condition and ready to begin their activity at once.

Dandy long black slim one -
a mate for the one Bert Douglas
found at the same place
last summer.
Mar. 29th Thursday. Cloudy.

Went up to P.O. for mail, but no mail came. Sun was still very high. The creek here is also high - must be 5 or 10 thousand inches still running. The following is a list of the Farmers' Bulletins available for distribution, showing the number, title, and size in pages of each. Copies will be sent to any address on application to Senators, Representatives, and Delegates in Congress, or to the Secretary of Agriculture, Washington, D.C.

FARMERS' BULLETINS.

16. Leguminous Plants. Pp. 24.
17. Important Insecticides. Pp. 32.
18. Barnyard Manure. Pp. 32.
19. The Feeding of Farm Animals. Pp. 32.
20. Feeds: Nutritive Value and Cost. Pp. 32.
21. Hog Cholera and Swine Plague. Pp. 16.
22. Peanuts: Culture and Uses. Pp. 24.
23. Sweet Potatoes: Culture and Uses. Pp. 40.
24. Flax for Seed and Fiber. Pp. 16.
25. Weeds: And How to Kill Them. Pp. 32.
26. Souring and Other Changes in Milk. Pp. 23.
27. Grape Diseases on the Pacific Coast. Pp. 15.
28. Alfalfa, or Lucerne. Pp. 24.
29. Silos and Silage. Pp. 32.
30. Peach Growing for Market. Pp. 24.
31. Meats: Composition and Cooking. Pp. 29.
32. Potato Culture. Pp. 24.
33. Cotton Seed and Its Products. Pp. 16.
34. Kaffir Corn: Culture and Uses. Pp. 12.
35. Spraying for Fruit Diseases. Pp. 12.
36. Onion Culture. Pp. 31.
37. Farm Drainage. Pp. 24.
38. Fowls: Care and Feeding. Pp. 24.
39. Facts About Milk. Pp. 29.
40. Sewage Disposal on the Farm. Pp. 20.
41. Commercial Fertilizers. Pp. 24.
42. Insects Injurious to Stored Grain. Pp. 24.
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are some apples left on the mountain and there should be no lack of meat, The

thing that bothers me most is that I have only 15cts left. I expected to get a few dollars from Mr. Miller by this time - but until the mail gets up I'll have to do without. I think Frank is in about the same fix. He has plenty of apples left over on the east end - but there's no way of getting them to market. He oughtn't to starve however. He has two sacks of flour if someone hasn't come down on him to "divvy up". Great times these!

Mar. 30th Friday. Threatening. Light showers P.M. Got in wood.

Worked on trail and ditch.

Ditch badly cut up - especially at the head. Hundreds of young alders in the creek bottom washed out - trees 15 to 20 ft high. The creek must have carried well onto 50000 inches at the height of the flood last Saturday night.

Mar. 31st Saturday. A.M. light rain wind and fog.

Palomar stands unique. A region
of great rainfall standing massive
amid

Nature here not the gigantic
and awe-inspiring aspect of
the Yosemite. You can smuggle
right up to ~~Nature's~~ the Rainbow Falls, to
the slide, to the hundred other
beauty spots ^{of} Palomar Nature

Diary. R.H.Asher. Palomar.

(After the 20-inch rain of Mar.23-26,1906.0

April 1. Sunday. Clear early A.M. Ground frozen. Went up to Johnny Limonbys at the old Clark log cabin. Had dinner with him. Beans mostly. Everybody is getting short of provender. Clouded up about noon. Snow late afternoon.

Nelson came down from Cleavers while I was at Johnnys.

April 2. Tuesday. Cledy-and-celdr--Went-up-to-post-effice.

Clear A.M. Cloudy P.M. with some rain. Worked on ditch.

April 3. Tuesday. Cloudy and cold. Went up to post office.

Mr. Bailey not back yet with supplies. People are wondering when they will get something to eat. The one thing which seems to be plenty is beans. Began snowing soon after I started for home. Received check for \$5 from Mr. Miller.

Alf has shipped (Mar.29.) 80 lbs of cypress seed to Mr.M.

There may be a few more pounds -- but not over 15 or 20.

San Luis Rey and San Diego River bridges were washed out by the floods. Huntington - Harriman Electric Railway fight on. Wrote to Fletcher - Salmons in re com. water rights.

April 4. Wednesday. Clear A.M. Worked on ditch. Snow and rain P.M. Cold.

April 5. Thursday. mists and light falls of snow all day.

Worked some on shack chimney. The snow fell pretty steadily all afternoon. The rains and snows of this week seem to com from the east. Heard one peal of thunder day before yesterd

April 6. Friday. Snow and rain. worked a little in the shack

Diary. Asher. Palomar.

April 7. Saturday, Foggy. Went up to Smiths. Dried my shoe and then went to p.o. with Smith. Mr. Bailey hasnt got back with supplies yet. Herbert Smith showed me his (and his fathers) collection of arrow heads. He has about 36 perfect ones beside some roughs.

April 8. Sunday. Clear. Went up to see Johnny Limonby, but he was not at home. I left the last Tribunes for him. P.M. Took a walk down the canyon. Have sore throat from exposure yesterday. The snow wet through my shoes and I did not get them dry until I got home -- about three hours. A hydrophobia skunk is making a nuisance of himself every night. He seems determined to get into the house. I close up one crack, and the next thing I know he comes in through another. It is a mystery to me how he manages to squeeze through such a small hole. Last night he knocked a tin plate off a can. I heard the racket, and a moment afterward smelt --- phew! I simply had to stand it -- no place to go except out into the cold, cold world. This evening, while I was re-reading, Mr. Skunk turned up right behind me. He ran around the bed-room a few times and finally went into the wood pile ^{could} I looked carefully, but see nothing of his skunkship, so I moved the wood away -- finding a hole big enough for the skunk to negotiate. I closed it up and went on with my reading. In about half an hour skunk comes poking his nose out of the pile of rocks in front of the fireplace. I drove him back and fixed things all secure there.

3.
Diary. Asher. Palomar.

April 9. Monday. Clear and warm. The skunk got into the house again last night and danced a jig in my bed-room. I let him alone. I cannot imagine what he wants to go in there for -- unless its for exercise -- or pure deviltry. He pranced and danced around, climbed up on the table, and ran up and down the planks leaning against the wall. Then he takes a shoot for the kitchen and rattles around the cans and other things for a while. Tiring of this, back he comes thumpetty thump. and begins all over again. It is my fervent hope that he wont take a notion to investigate my bed while I am in it -- thats all. He is surely a pretty little creature. I wish that I could get a few flashlight views of his while in action.

Worked a bit on the ditch. Then down to The Dugout and busied myself on the house all day. After coming back, and while supper was cooking, I fixed up the door beside the chimney so that the skunk couldnt get in through the cracks between the door and the walls. I fully expect, however, that my little friend will get in again tonight -- the ceiling isnt closed up tight yet.

April 10. Tuesday. Skunk turned up again, sure enough! Clawed through the asphaltum paper door of the dark-room! This time I nailed up the lower part of the door with shakes.

Went to post office. Worked some on ditch and Dugout shanty

April 12. Thursday. Clear. Worked on Dugout shanty. Some on ditch. Came back to shack about 4 P.M. -- not feeling quite well. Lay down on bed to rest awhile before getting supper. A few minutes later heard voices, and, before I could even get my shoes on, in marched Jimmie ----- (Louis Salmons

4. Diary. Asher. Palomar.

Salmons brother-in-law) and his Arizona brother. They stayed and chatted a little while and then hit the trail for home. They had been down to the Falls.

April 13. Friday. Clear. Worked on Ditch -- upper end -- all day except for cutting down a few small trees on the Dam-site.

April 14. Saturday. Clear. To post office and store. Mr. Bailey hasn't up the spuds and other stuff yet. I am now on a straight bean-mush-flapjack diet now -- and I am getting mighty tired of it. But Johnny Limonby is worse off than I am. He complains of being tired of tea and crackers -- no beans even! Such is life on Palomar! I do wish T.O.B. would get a move on.' He doesn't seem to care very much what we poor devils do for grub! I sent stuff to Central Agency including 50 cents for one share Empire Builders -- my brother Jay's company in San Francisco.

April 15. Sunday. Some fog in canyon and thunder-heads to the east. Took a walk up to north side of French Valley in the morning. Afternoon -- reading magazines.

April 16. Monday. Clear. Worked all day upper end of ditch.

April 17. Tuesday. Clear. Worked on the ditch before going up to the store. No potatoes yet, but got some beans and bacon! Worked on ditch after dinner.

April 18. Wednesday. Clear. Worked on Dugout Shanty.

April 120. Friday. Clear. Hot. Worked on ditch all day; Big timber-ants annual picnic -- Winged ants leaving nests by the hundreds.

5. Diary. Asher. Palomar.

April 21. Saturday. Clear and hot. Went up to post office. Word just received of terrible earthquake at San Francisco followed by destruction of whole city by fire. Jay and Mabel and her Warren Littlefield all there -- besides the aunts and cousins. I wanted to go down to the El Cajon Vall Valley home at once -- but I was nearly broke having only 45 cents in my purse -- also I would have to arrange for someone to hold down the water in my absence. I just dont know what to do with myself until Tuesday! But I guess that I had better wait until then. If there is no news by that time I am going down anyhow.

April 22. Clear and hot. Walked up to Johnnys. Saw Mr. Smit Smith and Herbert on the way. If I have to leave, and can get no one else to work on the ditch, Herbert said said that he would put in half a day each day as a special accommodation.

The Smith's have their hands full getting ready for the summer tourist trade, so I appreciate Herbert's very kind offer. Johnny said that he couldnt help me. I came near deciding to go down with Mr. Smith to Escondido, but again decided to stick it out here until Tuesday.

April 23. Monday. Cloudy and threatening. A few drops of rain, and some mist and fog. Went down to Dugout for flour etc. Worked some on ditch. My right hand is badly swollen from the effects of poison oak and have not been able to use it much since Friday. The swelling has begun to go down a little this evening and I am sure that the hand will soon be O.K. "Viva la Poison Oak." NIT! Oh, dear! I do hope Jay is all right! It is so hard to wait patiently for news.

6. Diary.- Asher. Palomar.

April 24. Tuesday. Cloudy. Some rain last night. Went up to postoffice. Three letters from mother dated 19th, 20th, and 21st. Jay, Mabel and Warren are reported to be all right in Oakland. One report had it that they were on their way home. But the Oakland news was the latest. Nothing from the other relatives.

April 25. Wednesday. Cloudy, foggy, and some rain. Worked clearing brush from farther end of ditch line all day up to about 4 P.M. when it began to rain. Looks as though poison oak -- or possibly measles -- is breaking out all over. Can't imagine how it got me this time. I am sure that I have tried to be careful. But then it was quite warm last week, and I perspired rather freely while I was working on the poison-oak part of the ditch. Oh, I forgot to note that I found a little rattlesnake on the trail as I was going up to the post office last Saturday. Quite an early snake!

April 26. Thursday. Clouds below. Worked some on trail. Went up to postoffice early. Took dinner with Cleaver and Nelson. Came back from post office with Cleaver and read his Los Angeles papers. Came by Smith's. Smith got me last Sunday's L.A. Times. One of his mares had a colt yesterday but the cold and wet in Deane's pasture was too much for it.

April 27. Friday. Cloudy. Worked on ditch most of day. Began to rain evening.

April 28. Saturday. Rain and snow. Stayed inside all day.

April 29. Sunday. More or less fog and rain all day. Trees and ground were white with snow this morning.

7. Diary. Asher. Palomar.

April 30. Monday. Clear A.M. Cloudy P.M. Clear at night.

Worked some on ditch and chopping wood.

May 1. Tuesday, Clear. Worked some on ditch. Went up to post office.

May 2. Wednesday. Clear. Worked all day on ditch.

May 3. Thursday. Clear and warm. Worked all day on ditch. Went down to Dugout to eat dinner. Lilac blossoms (blue) coming out.

May 4. Friday. Clear and warm. Worked all day on ditch.

May 5. Saturday. Rain. No ditch work. Went up to post office. Sent 40 photos to Outing Magazine. Sent me "The Hos Trader's Guarantee" John E. Parker for the Saturday Evening Post.. Josie sent me \$1. D.B.A. takes the stove -- sen sent me \$4. Good girls! Misty, rain, and fog all day.

May 6. Sunday. Clear. At home in the shack all day.

May 7. Monday. Clear. Worked all day on the ditch.

May 8. Tuesday. Clear and warm. Worked all day on the ditch. Heap tired! Got the brush out on the ditch line so I could see the "Hog's Back" and Oat Flat Ridge.

May 9. Wednesday. Cloudy. Worked on ditch A.M. Afternoon I moved blankets and grub down to the Dugout so as to be nearer the work on the ditch.

May 10. Thursday. Threatening, but no rain. Went up to the post office for mail and supplies. Took dinner with Cleaver. After getting back to Dugout via Lone Fir I went up to

8. Diary. Asher. Palomar.

May 11. Friday. Fog and rain. Worked on house. (At Dugout.)

Worked an hour or two in the afternoon on Falls Trail.

Quite a heavy rain set in at about 4 P.M.

May 12. Saturday. Main cloudy and foggy all day. Worked around house and a little on trails.

May 13. Sunday. Foggy. Went up to Smith's for my mail.

Visited Johnny Limonby. At home in the house all afternoon.

May 14. Monday. Clear most of day. The fog came up from below for a little while. Surveying ditch line A.M. Worked on Falls Flat trail to ditch line. P.M.

May 15. Tuesday. Clear. Worked on ditch line and some on trail.

May 16. Wednesday. Clear. Worked A.M. on ditch line. P.M. on new Lone Fir Trail.

May 17. Thursday. Clear and warm. Worked some in the morning and some in the afternoon on new Lone Fir Trail. Went up to store for grub and mail. Took dinner at Hotel with Herbert Smith and Mr. Limonby. Mr. and Mrs. Ford Carpenter walked up from the foot of Warner's Ranch Grade to Smith's on Tuesday. Mr. Carpenter had intended to come down to see me -- or perhaps rather the Falls -- but he had the chance to go down the mountain yesterday with Mr. Hayes, so down he went. Too bad. I would have enjoyed showing him the sights. Heard from Dr. Palmer and A. E. Hornbeck in regard to arrow heads. Received a letter from Frank Salmons. He wants me to answer some questions in regard to some land he seems to think I own. The matter had been referred to him by Ed Fletcher. I thought that I had made it plain to

9. Diary. Asher. Palomar.

everybody concerned that the land was not for sale. If Fletcher & Salmens want to do business with me they will have to talk business first -- and that means -- water.

Note: furthermore; - No water arrangement would find favor with me that would take the water of the creek out of the canyon or the creek on my part of the canyon. Any arrangement would have to be for the good of Chupa Rosa Park.

May 18. Friday. Clear. Worked on trail and getting out stuff for the floor of the house.

May 19. Saturday. Clear. Worked on trail.

May 20. Foggy. Went up to Smiths, but they had no mail for me. Mr. Smith's family were there, having come up Thursday. Mr. Smith said that he saw Frank Salmens at Escandide. Frank wanted Smith to see me about my water claims. Smith professedly couldnt understand Salmens letter of the 15th. about land. He suggested that it might possibly be some of Fletcher's doings.

May 21. Monday. Foggy all day. Worked on Lone Fir Trail all day.

May 22. Foggy last night and most of today, changing to rain about 4 P.M.. Was up to post office. Sent my collection of Palomar arrowheads to A.E.hornbeck. 60 perfect, 16 not so. Mother writes under date May19th that Ed Fletcher is very ill from bleed-poisoning as the result of running a cone into his feet while in the mountains. Story may be

10. Diary. Asher. Palemar.

from Sat Eve Post. Dr. and Mrs. Kreamer, Cassius Carter, an L.A. Wright and one other, a lady, were at the hotel last night -- from Warner's Hot Springs -- where they return today. I took dinner with the Smith's.

May 23. Wednesday. Foggy and rain. Worked on floor of house and on the log in the creek for shakes.

May 24. Thursday. Foggy all day except for a little while before breakfast. Worked in house all day.

May 25. Friday. Foggy and misty all day except for an hour or so in the afternoon when it was only cloudy. Worked in house most of day with an hour or two on the trail.

May 26. Saturday. Rain last night. Rain all day. Stayed in house. Worked some on the floor. Miserable day! It may be all right for Winter to linger in the lap of Spring -- but when it comes to Winter flirting with Summer -- why, I object.

May 27. Sunday. A little sunshine in the morning, but foggy most all day. Went up this morning to hotel and to Johnny's. Three and a half inches of rain for the storm according to Smith. Stayed inside house P.M.

May 28. Monday. Cloudy and foggy all day. Rained heavily last night. Creek was up pretty high. Worked a bit on the trail. Got out some stuff for shakes from old cedar log. Started to fell 2-foot cedar tree. Cold tonight & foggy.

May 29. Tuesday. Clear. Worked some on Ditch Trail and on cedar tree. Went up to post office and store. Letter from Salmans. Says something about taking out water "far below"

11. Diary. Asher. Palomar.

my place for "irrigating Pauma Ranch." Bluff!

May 30. Wednesday. Clear. Worked on ditch A.M. The cedar fell down last night. Began to saw it up for shakes P.M. White lilacs about out of bloom. The blue were past two weeks ago.

May 31. Thursday. Clear. Worked some on ditch and tree. Also went up to post office.

June 1. Thursday. Foggy afternoon. Worked on shake tree. Also on ditch.

June 2. Saturday. Foggy all day. Worked on shake tree until 10 A.M. Then went up to post office. No word yet from Mr. Hornbeck. Letter must have miscarried. Percy Day, Deputy City Clerk of San Diego, and George Kellar, came up on the stage yesterday and are camping on the Scott Place. Shake work late P.M.

June 3. Sunday. Foggy part of day. Went up to Oat Flats about 9.30 A.M. While I was gone, Day, Kellar, and the three Smith boys passed by the Dugout on their way to the Falls. They came back about 3P.M. and found me resting in bed. I had been feeling too sleepy to do any reading. Day has a 3 1/2 by 5 1/2 Kodak. I was down to the Falls myself after they went up the trail. The Falls Trail is in bad shape in places. Had been a land-slide on the south side of the canyon between Slide and Rainbow Falls. Water is still going down the canyon in a big stream, I never before have seen so much going over Rainbow. I wish I could have

12. Diary. Asher. Palemar.

seen it on March 25th. 1906.

June 4. Monday. Misty, foggy, and cloudy most of day after 9 or 10 A.M. Worked getting out shakes most of day, and began nailing them on the roof of the house. Guess I'll have to get more nails tomorrow.

June 5. Tuesday. Misty, foggy, and cloudy most of day. Cleared off about 5 P.M. Worked some on house. Went up to post office for mail and nails. Mother wrote me that A.T.H. had offered to act as a "go between" for F.S.Co. and R.H.A. Sent letter to her in regard to the offer.

June 6. Wednesday. Clear. Worked on Lone Fir Trail, shakes, and house.

June 7. Thursday. Clear and warm. Worked on house and shake. Went up to Hotel to grind ax.

July 8. Friday. Clear and hot. Worked on Lone Fir Trail and house shakes.

June 9. Saturday. Clear and quite hot. Worked A.M. on Falls Trail. P.M. on shakes.

June 10. Sunday. Clear and hot. Went up to the hotel for mail. Stayed at home P.M.

June 11. Monday. Worked on Ditch A.M. On shakes P.M. Mosquitoes and deer-flies have been exceedingly annoying last 3 da

June 12. Tuesday. Clear and hot. A.M. worked on Falls Trail P.M. on house.

13. Diary. Asher. Palomar.

June 13. Wednesday. Clear and hot. morning on Falls Trail.
Afternoon on house.

June 14. Thursday. Clear and hot. But not quite so much.
Worked for awhile on Lene rir Trail and then went up to
Motel and store. Sent letter to L.A. Times. J.C. Packard
and wife came up yesterday and are at the motel. Mrs. Pack-
ard was Miss Forward. Letters from S.H.A. and A.T.H. in re
Fletcher- Salmons Company and water biz. Referred A.T.H.'s
letter to Luce and Sleane. Worked on house P.M.

June 15. Friday. Clear and hot. Worked on ditch A.M. On
house P.M. Mesquites still here -- but not as bad as they
were two or three days ago.. Water in creek holding up in
great shape. Witch-hazels have been in bloom for a week
above the house.

June 16. Saturday. Clear. worked on ditch all day. Deer
flies very annoying. Did a little work on Falls Trail
after supper.

June 17. Sunday. Clear and hot. Went up to Motel A.M.
Took dinner -- charge 35 cents -- and stayed until about
4 P.M. Fred Saunders and party are to come down to the
falls Wednesday.

June 18. Monday. Clear. Hotter! Mesquites and deer flies
bad. Worked on trail and ladder Rainbow Falls A.M. After
noon worked on house.

June 19. Tuesday. Clear and hot. Worked on ditch A.M. Went
up to Motel for mail after dinner. Upon return worked on
house.

14. Diary. Asher. Palomar.

June 20. Wednesday. Clear and hot. Mosquitoes and deer flies are a caution. Never saw them so bad. Worked around house. Sleane & Luce letter. Have made prep. to A.T.A.(H?) Took Mr. Smith, the San Diego bike man, Mrs. Smith, and Fred Saunders, down to the Falls. Left them there and returned to house and work. They got back just as I was cooking dinner and went up the Lone Fir Trail. Worked on ditch P.M. Don't mind the heat very much as I can work in the shade but the mosquito-deerfly combination nearly drives me wild at times. Hope they won't keep it up all summer. What will become of me when the "Stinging Knats" arrive? Wood ticks also are worse than I ever knew them to be before -- especially on the Falls Trail this morning.

June 21. Thursday. Clear. Worked on ditch A.M. After dinner went up to Hotel for mail. Worked on house etc upon return.

June 22. Friday. Clear. Somewhat cooler. Worked on ditch all day.

June 23. Saturday. Clear. A.M. worked on ditch. On snake tree P.M. My face and neck are covered with bumps -- mosquito bites. A beautiful blue beetle is working on the bark of the cedar tree. It is about $7/8$ of an inch long. Picked a few wild strawberries. Began digging the seedling Liliun Bleomerianum above the house after supper -- but the skeeters got after me and I had to quit.

June 24. Sunday. Cloudy to fair. Took dinner at the Hotel. Mr. and Mrs. J.C. Packard went down to the Falls P.M.

15. Diary. Asher. Palemar.

June 25. Monday. Clear and cloudy. Cool.

June 26. Tuesday. Partly cloudy. Fog late in the afternoon. Went up to Hotel and Post office for mail and groceries. Worked on ditch all morning. Mrs Ed Wells came up on the to stay at Bailey's all summer. Saunders, the Smiths and the Packards go home tomorrow. Sold Mr. Packard 4 tinted and 1 untinted photos. \$1.50.

June 27. Fog, mist, and rain. Wednesday. Worked an hour or two on the ditch in the mist, but the wetness got to coming down too fast -- so I hiked for the house. Had early supper, and, as rain let up, I worked an hour two on shake log and house.

June 28. Thursday. Partly clear. Worked on ditch. Went up to Hotel for mail. Clarence Smith took two ladies and boy to Falls. Mrs Jensen and sister of San Diego. They bought photos.

June 29. Friday. Clear. Worked ditch A.M. Around house P.M.

June 30. Saturday. Worked ditch A.M. Around house P.M.

July 1. Sunday. Clear. Took dinner at Hotel.

July 2. Tuesday. Clear and very hot. Hottest of the season so far. Worked for awhile on the shake tree and then went up to post office for mail and groceries. Took dinner with Walter Williams and folks. Killed a good-sized rattlesnake near the trail above the house near the top of the ridge. Coming back from P.O. saw another a little higher up. Loui Salmons Indian boy shot it with his rifle. Two in one day is coming it pretty fast.

16. Diary. Asher. Palomar.

is coming it pretty fast. This makes five in the three years I have been here -- Dugout locality.

July 4. Wednesday. Clear -- then cloudy. Looked like rain up the canyon and a few drops fell here. First thunder of the season. A.M. worked on snake tree. P.M. on house. Not feeling extra well the last few days.

July 5. Thursday. More or less cloudy. Several showers and some thunder. Shakes A.M. Went up to Hotel for mail and get my hair trimmed by Mr. Smith. Mr. Smith cashed Miller's check for me. (\$15.00) Deer flies very persistent and numerous. Worked some on house. Sener Merino of Pala at Hotel.

July 6. Friday. Clear -- then cloudy -- with rain beginning about 12 o'clock. Plenty of thunder. Worked all morning on snake tree and making shakes. The tree has been struck by lightning at some time judging from appearances interior of log. Mesquites not so bad near the Dugout as they were. But there are still plenty of them along the ridges high above the water. Cleared off toward night. Worked some house

July 7. Saturday. Clear -- then clouds, thunder and rain in the afternoon. worked on ditch A.M. On house P.M. whenever it wasn't raining. Lily blossoms almost ready to come out. Saw one poor little Calcechertus Albus. Hot weather hurried the blooming -- there were lots of them 3-4 days ago.

July 8. Sunday. Cloudy, but no rain. Took dinner with Johnny Limenby.

17. Diary. Asher. Palomar.

July 9. Monday. Clear. Worked all day on ditch. Mesquites horrible -- but fewer deer flies. Saw first two lily blossoms yesterday. More today.

July 10. Tuesday. Clear part of day. Thunder and clouds P.M. Worked on shake tree A.M. After noon got mail at hotel. Handed Smith \$5. to give to Fred Blum for supplies. Hot. Stearns and Thomas camping on Oliver Place since Saturday.

July 11. Wednesday. Clear. And hot. Worked on shakes A.M. On ditch P.M. Mesquites very bad on ditch.

July 12. Thursday. Some thunder clouds. Very hot. Worked on shake tree A.M. Went up to store for supplies. Took dinner with Mr. Williams and family. Fred Blum brought up my things to the hotel. Shoes, plates, socks, developer etc.

July 13. Friday. Sky overcast A.M. and a few drops of rain. Went down to the "Slide" and took a picture of the Falls. After noon worked on ditch. Clear P.M.

July 14. Saturday. Cloudy all day but no rain. Took camera up to Hotel A.M. Took pictures of Jim Frazer and his mules. Also of the Smith family posed in front of the Hotel with the celt "Remee" on the lawn. And of the Iron Spring and of a Harry Lily below Hayes Place with 24 buds and blossoms. Finally tried to get full-size photos of *Lilium Blemerianum* and the blue *Penstemon* near Degout.

July 15. Sunday. Clear. Stayed at home all day.

18. Diary. Asher. Palomar.

July 16. Monday. Clear. Went up to Homestead Shack for a lamp (small), and a load of other stuff. Worked some on shakes. Put some shakes on east end of house. Made a few 4-foot water troughs. Developed 10 plates.

July 17. Tuesday. Clear. Worked ditch A.M. Went up to Hotel for mail P.M. Mr. and Mrs F.W. Stearns of San Diego were down to the Falls this morning. In the afternoon I came back by their camp. Baker Thomas and wife with them. Sold them some photos.

July 18. Wednesday. Clear and hot. Worked on ditch. Printed some pictures. At 10 A.M. party from Bailey's arrived Dugout. I went down to the Falls and back with them. Mr. Cleaver drove them as far as the Lone Fir. Fourteen in party. Walter Williams and wife, Walter, Jr., Miss Hallie Williams, Mrs and Miss Cherry, Mr. and Mrs Hayes and family and several other young ladies -- names not known to me. Mrs Cherry was delighted with the canyon.

July 19. Thursday. Clear and hot. Worked on ditch A.M. Mail and photos P.M. The crowd yesterday killed a big rattler up Lone Fir Trail. Los Angeles party with two autos at Hotel. Sold them some photos. Sam Dickson, Mr. and Mrs Ed House, Mr Hull, Mr Caldwell and others. Met three San Diego men on my road home.

J

July 20. Friday. Clear and hot. Worked on ditch and photos.

July 21. Saturday. Hot. Clear morning. Clouds and thunder off to northeast afternoon. Worked on ditch and tinting photos. Mesquites still bad..

19. Diary. Asher. Palomar.

July 22. Sunday. Cloudy and threatening. hot and sultry. Thunder. Looked like it was raining northeast. Took dinner at Hotel. Rev. Brown and wife of San Diego were there. Also two friends of Reed & Lancaster (the Los Angeles laundrymen), Hazelrigg and family, and Deputy District Attorney Schoenever and family.

July 23. Monday. Hot and very sultry. Was sweating half of the night. Clouds and thunder to northeast. Worked on ditch and photos.

July 24. Tuesday. Threatening with thunder to the east. Worked on ditch A.M. Was digging in the ditch close to the trunk of a leaning oak tree when some impulse made me look up -- and there was a good-sized rattler coiled almost on a level with my face! Six rattles and a button. Two feet from the ground in a depression in the bark. It was early and still cool. Otherwise I might not now be writing these notes. Went to the Hotel for mail and to sell photos if any customers there. Mr. Smith was about to start on a trip to Escandide, so he offered me a lift as far back as the Lone Fir. We had not much more than started when I noticed a over French Valley way. I called Smith's attention to it and we soon came to the conclusion that lightning had struck a tree top and started a fire. Smith admitted that he was a Fire Warden and was supposed to look after wild fires but that the Hotel was urgently in need of supplies and that he didn't like to delay his trip to Escandide. Didn't look like much of a fire now and couldn't I see about putting it out the fire for him. Of course I offered to do all I could

but that I wasn't so much physically -- that the fire might get quite a start before I could make the two or three mile hike. Smith cogitated a minute; "Dog gone it!" he exclaimed, "I can't let my people down. We must have these groceries right away or our customers will be kicking like bay steers. But I'll tell you what we can do. You go down there to the house and get Lois to help you. Tell him that I said so." Lois Salmons and family living in the Adams orchard this summer. So I jumped off the wagon and Smith drove on down the grade. At the Adams house Mrs Salmons told me that Louis wasn't at home but that I could ride the "little gray mare", and that she would send Louis after me as soon as he got home. She said that the mare was in the corral, which was some distance and that saddle and bridle were hanging on the fence. I got the saddle onto the mare's back all right, but when it came to getting the bridle bit into her mouth I had trouble -- I had been travelling so fast that my hands were trembly -- and the mare had her own ideas about such foolishness. Precious time was flying and I had nearly lost my last shred of patience when the mare suddenly decided to be good and let me bridle her. Mrs Salmons had told me where to find a shovel, so I got it and tied it on behind as best I could and jumped up into the saddle. Down went the mare on all fours. I told her to get up -- but she stayed squatted. I slapped her and rattled the shovel. No go! Finally my patience gave out completely. Dismounting, I unloosed saddle and bridle, jerked them to the ground, retrieved the shovel and started off afoot pretty near the boiling point inside. I hadn't been feeling at all well last few days -- But I simply had to get to that fire

21. Diary. Asher. Palemar.

the earliest possible moment. Arriving at the top of the hill south of and overlooking Lower French Valley I could see no trace of smoke in any direction. Nonplussed, I was standing on the point wondering what to do next, when I heard a crash in the timber to the northwest followed almost immediately by arising smoke. I crashed through the brush down into the canyon and up the other side a short where I found my fire. The lightning had struck near the top of a black oak tree setting it afire. The fire had burned and smouldered until a dead limb gave way and fell to the ground just in time for me to hear the crash. The tree was still burning in several places, the burning brands of the fallen limb had set the dry grass afire and the fire was running up the hillside before a breeze that had just started up from the east. I can tell you that it kept me jumping for a few minutes and the blaze came near getting away from me entirely -- but luck was with me and I succeeded in beating out the flames. Then I dug a fire-guard clear around the tree, scraped the rubbish from under the tree and dragged earth on it putting out all fire on the ground. when I get back to Salmons it was nearly dark, and I was too tired, almost, to take another step. So I went up to the hotel for supper and lodging over night. I had had no dinner.

July 25. Wednesday. Cloudy -- a little. Took breakfast at the hotel. Went down to the Falls with Harold Swayne, Frank Weelman, Miss Alice Murphy and Miss Clara Vere de Vere Smith. Took 5 photo views of the bunch at Lone Fir, Dugout, and along creek near Falls. Young Burt and Mr. Hall were down also and got into one of the photos with Harold Swayne

22. Diary. Asher. Salomar.

Killed one rattler near the Slide Cave. Another got away on trail above The Slide. Worked around the house and on the photos.

July 26. Thursday. Clear. Worked some on ditch A.M. On card photos after 10 A.M. After noon went up to the Hotel. Sold some photos. Rode with Alun to Bailey's to get some grub. There is to be a Camp-fire at the hotel tonight, but I cant afford to pay \$1. or \$1.50 for supper, lodging and breakfast. Mr. Smith to let Tuesday's fire-fighting square charges against me for supper etc that night. He didnt seem to think my work amounted to anything. Well, I feel sure that there would have been quite a fire if I hadnt got to the tree just when I did. The top fell only a few moments before I got there. I-arrived- The fire was running in the dry grass and the breeze started up before I had made much more than a mere start at beating out the blazing, dry as tinder stuff.

July 27. Clear. Started to run a ditch line for house, etc., south side of creek. Wish I could get the right sort of a man to help with the ditch and other work. A.T.H. failed to the deal a go. I fail to see the use of holding up my plans for another single minute for the sake of making peace with the Pacific Light and Power Company. I propose to ignore all attempts for an understanding, going ahead as best I may with my original plans -- Chupa Rosa Park Resort -- using what power and water I may need without reference to possible developement by others.

23. Diary. Asher. Palomar.

July 28. Saturday. Clear. Cooler nights. Worked on new ditch line and on site for new houses.

July 29. Sunday. Clear. Not feeling well, so stayed at home

July 30. Clear. Worked some on house sites and ditch. Printed some photos.

July 31. Tuesday. Clear. Worked on photos A.M. Went up to the Hotel for mail. Waited for stage at Lone Fir. Mr. and Mrs Geo. W. Marston and Misses Helen and Harriet were aboard. (Note 1938. Mary M.?) They expect to stay at Smith's for a week or so. Jessie could not come. (My sister Josephine

Aug. 1. Wednesday. Clear. Claire Nelson and Zeke Morse came the Dugout before breakfast on their way to Falls, Cat Flats, etc., hunting deer. They got around again in time to take dinner with me. First visitors to break bread -- or rather corn floppers -- with me since --? Took their pictures standing beside the Dugout. They will take a dozen cards. Worked a bit about the house.

Aug. 2. Thursday. Clear. Worked until 10 A.M. when Sam Dickson and his crowd struck the camp. Took their photos lined up alongside big above house toward the Falls. Went up to the store P.M. Ran across Mr. Sweet and greeted him with "Hullo, Mr. Carter." I had mistaken him for Cassius Carter. Ha! Ha! A good one on me. Saw Mr. and Mrs Marston and the girls for a few minutes. The Dickson crowd ordered 2 dozen cards. (\$2.00) Sold them a lot of the flower photos etc.

Sam Dickson, Wm Prier, Frank Prier, Edna and Frankie Willard Willard and Dussett Keane of Escandido, Helen Mc Neely, San

Please register - I didn't re-
member their names two
minutes.

Wm Prior, Esq.
Frank Prior

Miss Edna Willard

" Frankie "

" Everett Kinn

" Helen McNeale, Jane Spencer

G R Brant

Stetson

Dear Bot. - Please give us a
doz of each of convenient leave
at store. If you can not get
over there leave with Smith.

Yours

S. L. Dickson

P.S. Thanks for the picture

S. L.

24. Diary. Asher. Palomar.

Marcos, and G.R.Crane of Escondido.

Aug. 3. Friday. Clear. Busy with Dickson photos until Hotel crowd arrived. George Marston, Andrew Schoonover, Mr. Hazelrigg, Mr. Bangs, Mr. Sweet, Harold Smith and another boy -- Schoonover's, I guess. I went down to the Falls with them and took a number of views. Got Mr. Marston into four or five of them. Mr. M. was the liveliest boy of the lot.

Aug. 4th. to Aug. 11th., Saturday. Clear. Worked most of the time on the place. Some on ditch. Did a good deal of photo work. On Monday went up to the Hotel early and started with Mr. Marston for the Peak via French Valley, but got into heavy brush before getting to the top. We struggled with it for an hour or so and Mr. Marston was all for going on regardless of the late hour; but I had given my solemn promise to Mrs Marston that I would get back with "George" before dark. George and I had quite a verbal wrangle over the question, but he finally gave in and we hit the homeward trail -- or rather did as soon as we could reach it again. Mr. Marston greatly admired the silvery, weathered shakes on the sides of the Cochran cabin at the head of Upper French Valley. Also he was quite interested, and perhaps more than quite amused, at my coffee-making procedure at lunch time. I had recently run across a receipt for making coffee in a late number of the Ladies Home Journal and it had occurred to me that it would be a ^{good} ~~bad~~ plan to try it out on the dog -- begging Mr. Marston's pardon. Had supper at the Hotel as Mr. Marston's guest.

25. Diary. Asher. Palomar.

On Tuesday morning came home here, but returned to Hotel late P.M. to take pictures of the Hazelrigg crowd. Left hotel for return home at 6 o'clock, arriving here just at dark. Wednesday, Mrs Keen, sister of Lynn Boyd, and son were down to the Falls. On Thursday went up to post office. Got some grub and sold some photos. Ed Davis and party said to be at the Iron Springs. Took late dinner with Smith. Paid him \$2. on stove account --\$3. in all to date. Note: I had arranged to buy the big hotel stove from Smith for \$5. Received last of negatives from Patterson. On Saturday the 11th., a young Mr. Kenton, who lives near Upper Otay Lake in Proctor Valley, was down to the Falls. He is quite enthusiastic about San Diego's future. Says it is going to be a second New York. Mrs Keen was quite taken by my place. Declares that it is the best part of the mountain. Thinks her folks will come next year to Chupa Rosa Park if I am ready for business then. Warren Littlefield and Mabel have gone East. Jay to follow --perhaps already gone. Tiger lilies just out of bloom. Millions of larvae crawling down from the alder trees where they have been feeding for the last month or more. A few have reached the house on their journey up the hill. Expect they will be a great nuisance.